SONY

3-219-611-**11**(1)

LCD Colour TV

Operating Instructions GB

⚠ Before operating the TV, please read the "Safety information" section of this manual. Retain this manual for future reference.

KLV-46D300A
KLV-40D300A
KLV-32D300A

BRAVIA

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Introduction

Thank you for choosing this Sony product.
Before operating the TV, please read this manual thoroughly and retain it for future reference.

WARNING

- To prevent the risk of electric shock, if the AC power cord or plug is damaged, do not insert the plug into the AC power outlet. This plug cannot be used and should be destroyed.
- To prevent the risk of fire or electric shock, do not expose the TV set to rain or moisture.
- Dangerously high voltages are present inside the TV set. Do not open the cabinet. Refer servicing to qualified personnel only.

Trademark information

- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

The illustrations used in this manual are of the KLV-32D300A unless otherwise stated.

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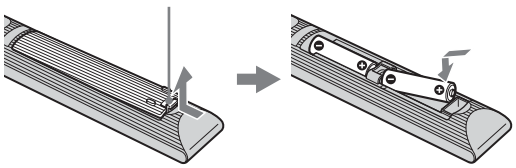
Before use

To insert batteries into the remote

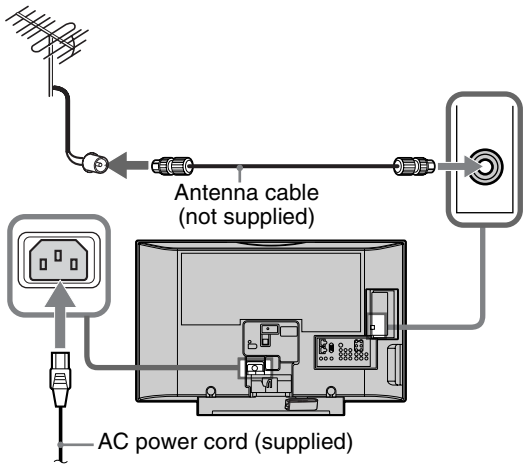
Push and lift the cover to open.



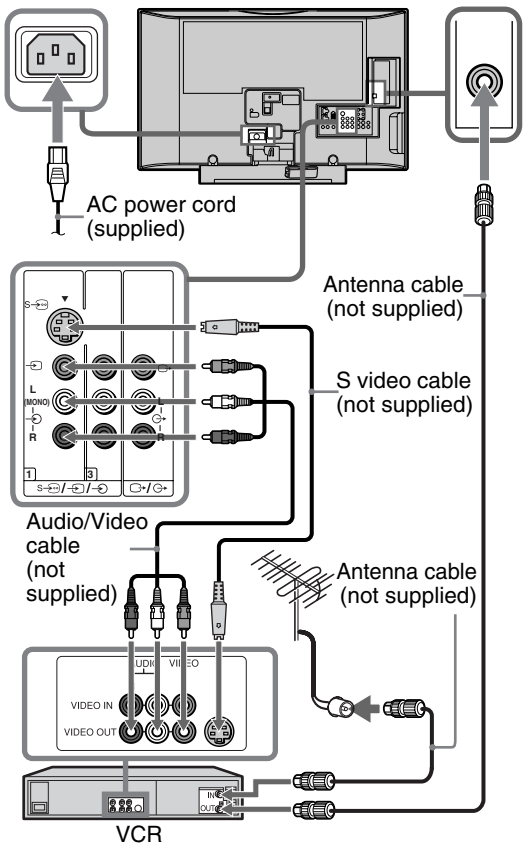
- Observe the correct polarity when inserting batteries.
- Do not use different types of batteries together or mix old and new batteries.
- Dispose of batteries in an environmentally friendly way. Certain regions may regulate the disposal of batteries. Please consult your local authority.
- Handle the remote with care. Do not drop or step on it, or spill liquid of any kind onto it.
- Do not place the remote in a location near a heat source, a place subject to direct sunlight, or a damp room.

1: Connecting an antenna/cable/VCR

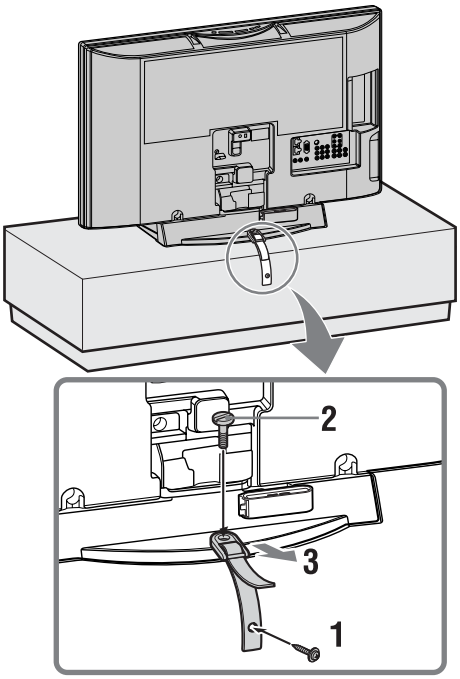
Connecting an antenna/cable



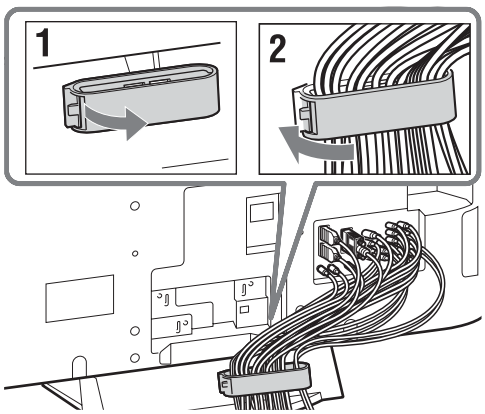
Connecting an antenna/cable and VCR



2: Preventing the TV from toppling over

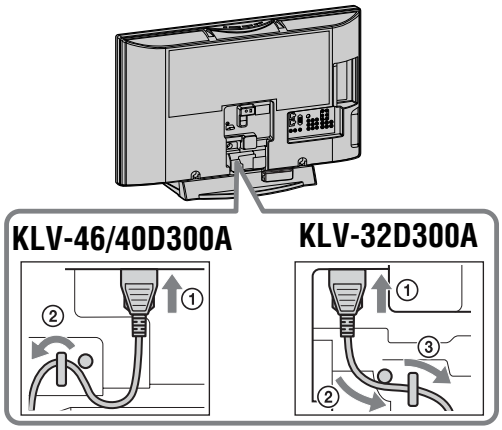


3: Bundling the cables

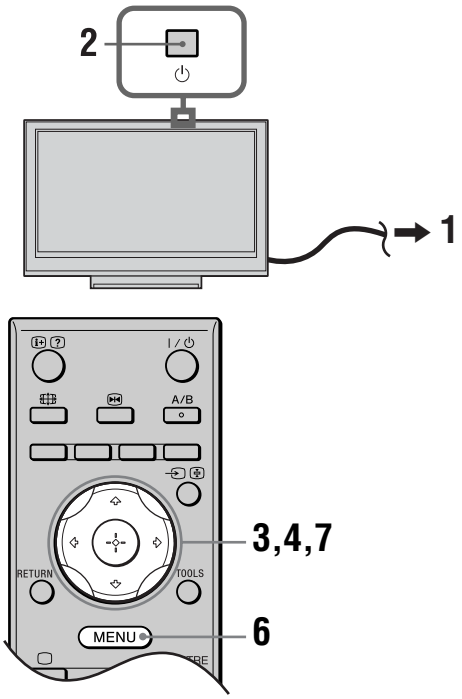


✍
The hook of the cable holder can be opened from either sides depending on attaching position.

4: Connecting the AC power cord



5: Performing the initial set-up



Continued

Selecting the language

1 Connect the TV to your AC power outlet (110-240 V AC, 50/60 Hz).

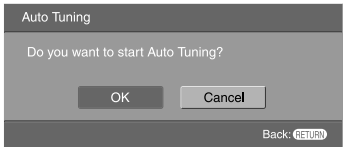
2 Press ⏻ on the top edge of the TV.

When you turn on the TV for the first time, the "Language" menu appears on the screen.

3 Press ⇧/⇩ to select the language displayed on the menu screens, then press ⊕.

Auto-tuning the TV

4 Press ⇦/⇨ to select "OK", then press ⊕.



The TV starts searching for all available channels. This may take some time, please be patient and do not press any buttons on the TV or remote.

If a message appears for you to confirm the antenna connection

No programmes found. Please connect antenna (aerial) and select "Confirm" to start auto-tuning again. If 100 channels are found, auto-tuning is stopped.

5 When the "Programme Sorting" menu appears on the screen, follow the steps of "Programme Sorting" (page 30).

If you do not change the order in which the channels are stored on the TV, go to step 6.

6 Press MENU to exit.

The TV has now tuned in all the available channels.

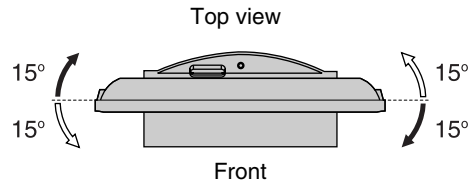
7 Press ⇦/⇨ to select the desired setting in "Display this menu next time?" dialogue, then press ⊕ to exit.

If "Yes" is selected and the TV is turned off by pressing ⏻ on the TV, or is disconnected from the AC power outlet, the auto start-up procedure restarts the next time the TV is turned on.

Adjusting the viewing angle of the TV

This TV can be adjusted within the angles shown below.

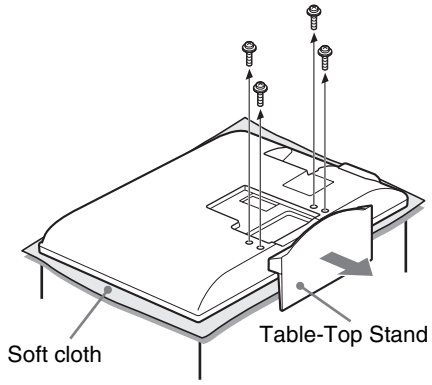
Adjust the angle left and right (swivel)



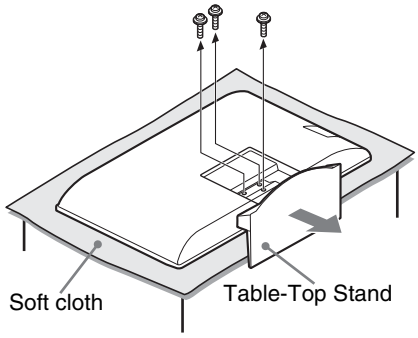
Detaching the Table-Top Stand from the TV

Do not remove the Table-Top Stand for any reason other than to wall-mount the TV.

► For KLV-46D300A/KLV-40D300A



► For KLV-32D300A



✍
For bracket installation, refer to the instruction guide provided by the Wall-Mount Bracket model for your TV. Sufficient expertise is required in installing this TV, especially to determine the strength of the wall for withstanding the TV's weight. **For product protection and safety reasons, Sony strongly recommends that you use the Wall-Mount Bracket model designed for your TV and the wall-mounting of your TV should be performed by Sony dealers or licensed contractors.**

Safety information

Installation/Set-up

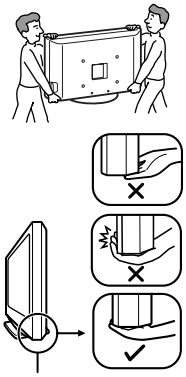
Install and use the TV set in accordance with the instructions below in order to avoid any risk of fire, electrical shock or damage and/or injuries.

Installation

- The TV set should be installed near an easily accessible AC power outlet.
- Place the TV set on a stable, level surface.
- Only qualified service personnel should carry out wall installations.
- For safety reasons, it is strongly recommended that you use Sony accessories, including:
  – Wall-mount bracket SU-WL500

Transporting

- Before transporting the TV set, disconnect all cables.
- Two or more people are needed to transport a large TV set.
- When transporting the TV set by hand, hold it as shown on the right. Do not put stress on the LCD panel.
- When lifting or moving the TV set, hold it firmly from the bottom.
- When transporting the TV set, do not subject it to jolts or excessive vibration.
- When transporting the TV set for repairs or when moving, pack it using the original carton and packing material.

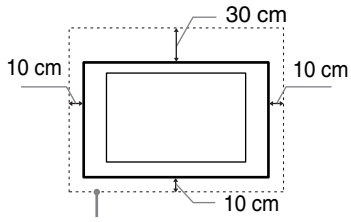


Be sure to hold the bottom of the panel, not the front part.

Ventilation

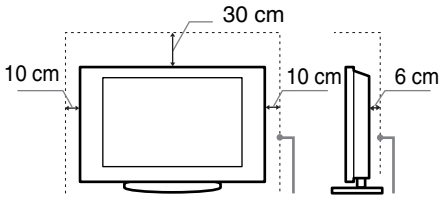
- Never cover the ventilation holes or insert anything in the cabinet.
- Leave space around the TV set as shown below.
- It is strongly recommended that you use a Sony wall-mount bracket in order to provide adequate air-circulation.

Installed on the wall



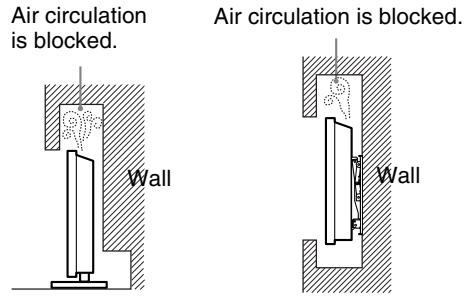
Leave at least this space around the set.

Installed with stand



Leave at least this space around the set.

- To ensure proper ventilation and prevent the collection of dirt or dust:
  – Do not lay the TV set flat, install upside down, backwards, or sideways.
  – Do not place the TV set on a shelf, rug, bed or in a closet.
  – Do not cover the TV set with a cloth, such as curtains, or items such as newspapers, etc.
  – Do not install the TV set as shown below.



AC power cord

Handle the AC power cord and outlet as follows in order to avoid any risk of fire, electrical shock or damage and/or injuries:

- The shape of AC power plug, which is supplied with the TV set, varies depending on the regions. Be sure to connect the appropriate supplied AC power cord with the plug that fits into the AC power outlet.
- Connect the TV set using a three-wire grounding type AC power plug to a AC power outlet with a protective earthing connection.
- Use only Sony supplied AC power cords, not those of other brands.
- Insert the plug fully into the AC power outlet.
- Operate the TV set on a 110-240 V AC supply only.
- When wiring cables, be sure to unplug the AC power cord for your safety and take care not to catch your feet on the cables.
- Disconnect the AC power cord from the AC power outlet before working on or moving the TV set.
- Keep the AC power cord away from heat sources.
- Unplug the AC power plug and clean it regularly. If the plug is covered with dust and it picks up moisture, its insulation may deteriorate, which could result in a fire.

Notes

- Do not use the supplied AC power cord on any other equipment.
- Do not pinch, bend, or twist the AC power cord excessively. The core conductors may be exposed or broken.
- Do not modify the AC power cord.
- Do not put anything heavy on the AC power cord.
- Do not pull on the AC power cord itself when disconnecting the AC power cord.
- Do not connect too many appliances to the same AC power outlet.
- Do not use a poor fitting AC power outlet.

Prohibited Usage

Do not install/use the TV set in locations, environments or situations such as those listed below, or the TV set may malfunction and cause a fire, electrical shock, damage and/or injuries.

Location:

Outdoors (in direct sunlight), at the seashore, on a ship or other vessel, inside a vehicle, in medical institutions, near flammable objects (candles, etc).

Environment:

Places that are hot, humid, or excessively dusty; where insects may enter; where it might be exposed to mechanical vibration; unstable locations; near water, rain, moisture or smoke.

Situation:

Do not use when your hands are wet, with the cabinet removed, or with attachments not recommended by the manufacturer. Disconnect the TV set from AC power outlet and antenna during lightning storms.

Broken pieces:

- Do not throw anything at the TV set. The screen glass may break by the impact and cause serious injury.
- If the surface of the TV set cracks, do not touch it until you have unplugged the AC power cord. Otherwise electric shock may result.

When not in use

- If you will not be using the TV set for several days, the TV set should be disconnected from the AC power for environmental and safety reasons.
- As the TV set is not disconnected from the AC power when the TV set is just turned off, pull the plug from the AC power outlet to disconnect the TV set completely.
- However, some TV sets may have features that require the TV set to be left in standby to work correctly.

For children

- Do not allow children to climb on the TV set.
- Keep small accessories out of the reach of children, so that they are not mistakenly swallowed.

If the following problems occur…

Turn off the TV set and unplug the AC power cord immediately if any of the following problems occur. Ask your dealer or Sony service centre to have it checked by qualified service personnel.

When:

– AC power cord is damaged.
– Poor fitting of AC power outlet.
– TV set is damaged by being dropped, hit or having something thrown at it.
– Any liquid or solid object falls through openings in the cabinet.

Precautions

Viewing the TV

- View the TV in moderate light, as viewing the TV in poor light or during long period of time, strains your eyes.
- When using headphones, adjust the volume so as to avoid excessive levels, as hearing damage may result.

LCD Screen

- Although the LCD screen is made with high-precision technology and 99.99% or more of the pixels are effective, black dots may appear or bright points of light (red, blue, or green) may appear constantly on the LCD screen. This is a structural property of the LCD screen and is not a malfunction.
- Do not push or scratch the front filter, or place objects on top of this TV set. The image may be uneven or the LCD screen may be damaged.
- If this TV set is used in a cold place, a smear may occur in the picture or the picture may become dark. This does not indicate a failure. These phenomena disappear as the temperature rises.
- Ghosting may occur when still pictures are displayed continuously. It may disappear after a few moments.
- The screen and cabinet get warm when this TV set is in use. This is not a malfunction.
- The LCD screen contains a small amount of liquid crystal and mercury. The fluorescent tube used in this TV set also contains mercury. Follow your local ordinances and regulations for disposal.

Handling and cleaning the screen surface/cabinet of the TV set

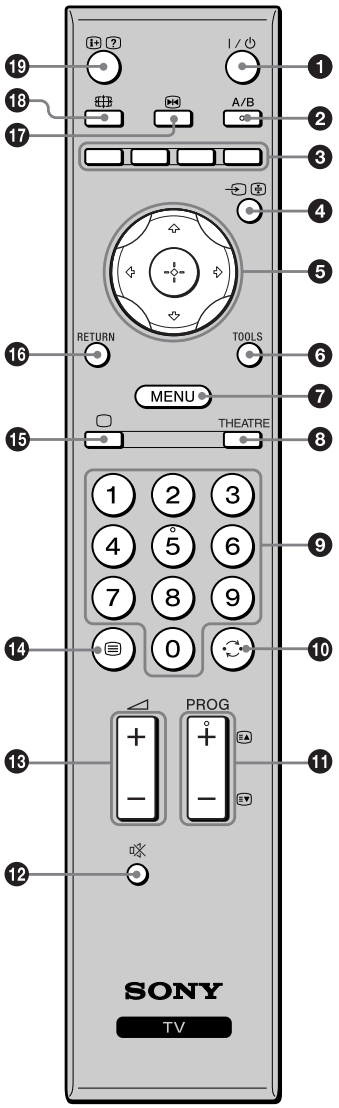
Be sure to unplug the AC power cord connected to the TV set from AC power outlet before cleaning.
To avoid material degradation or screen coating degradation, observe the following precautions.

- To remove dust from the screen surface/cabinet, wipe gently with a soft cloth. If dust is persistent, wipe with a soft cloth slightly moistened with a diluted mild detergent solution.
- Never use any type of abrasive pad, alkaline/acid cleaner, scouring powder, or volatile solvent, such as alcohol, benzene, thinner or insecticide. Using such materials or maintaining prolonged contact with rubber or vinyl materials may result in damage to the screen surface and cabinet material.
- When adjusting the angle of the TV set, move it slowly so as to prevent the TV set from moving or slipping off from its table stand.

Optional Equipment

Keep optional components or any equipment emitting electromagnetic radiation away from the TV set. Otherwise picture distortion and/or noisy sound may occur.

Overview of the remote



❶ I/⏻ – TV standby

Turns the TV on and off from standby mode.

❷ A/B – Dual Sound (page 23)

❸ Coloured buttons (page 12)

❹ ⏎/⏎ – Input select / Text hold

- Displays the connected equipment list and selects the input source (page 17).
- In Text mode (page 12): Holds the current page.

❺ ⇧/⇩/⇦/⇨/⊕ (page 12, 19)

❻ TOOLS (page 13, 17)

Enables you to access various viewing options and change/make adjustments according to the source and screen mode.

❼ MENU (page 19)

❽ THEATRE

You can set Theatre Mode on or off. When Theatre Mode is set to on, the optimum audio output (if the TV is connected with an audio system using a HDMI cable) and picture quality for film videos are automatically set.

✍

If you turn the TV off, Theatre Mode is also turned off.

❾ Number buttons

- Selects channels. For channel numbers 10 and above, enter the second digit quickly (page 30).
- In Text mode: Enters the three digit page number to select the page.

❿ ⟲ – Previous channel

Returns to the previous channel watched (for more than five seconds).

⓫ PROG +/-/⏎/⏎

- Selects the next (+) or previous (-) channel (page 12).
- In Text mode (page 12): Selects the next (⏎) or previous (⏎) page.

⓬ 🔇 – Mute (page 12, 17)

⓭ +/- – Volume (page 17)

⓮ ☰ – Text (page 12)

⓯ ▭ – TV mode (page 17)

Switches to a TV display when displaying external input.

⓰ RETURN

Returns to the previous screen of any displayed menu.

⓱ ⏯ – Picture freeze (page 12)

Freezes the TV picture.

⓲ ▭ – Wide mode (page 13)

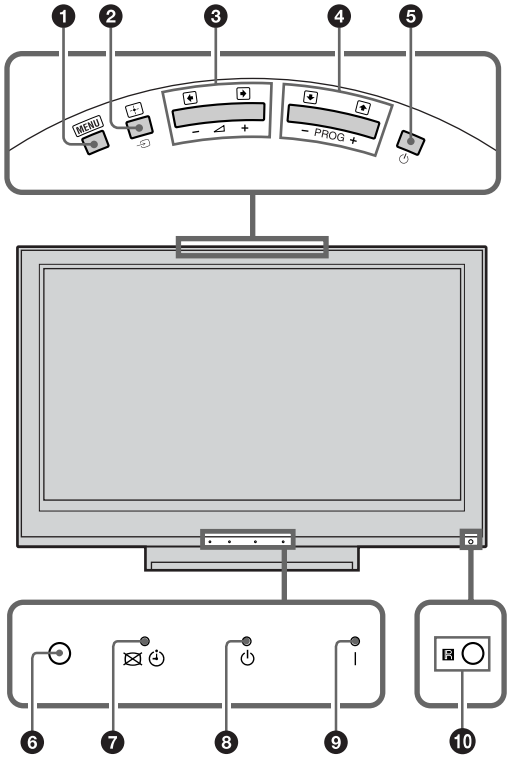
⓳ ⏎/? – Info / Text reveal

- Displays information such as current channel number and screen mode.
- In Text mode (page 12): Reveals hidden information (e.g. answers to a quiz).

💡

The number 5, PROG + and A/B buttons have tactile dots. Use the tactile dots as references when operating the TV.

Overview of the TV buttons and indicators



❶ MENU **(page 19)**

❷ **– Input select / OK**

- Displays the connected equipment list and selects the input source (page 17).
- In TV menu: Selects the menu or option, and confirms the setting.

❸ **+/-/→/←**

- Increases (+) or decreases (-) the volume.
- In TV menu: Moves through the options right (→) or left (←).

❹ **PROG +/-/↑/↓**

- Selects the next (+) or previous (-) channel.
- In TV menu: Moves through the options up (↑) or down (↓).

❺ **– Power**

Turns the TV on or off.

✍

To disconnect the TV from the AC power completely, pull the plug from the AC power outlet.

❻ **Light sensor (page 28)**

Do not put anything over the sensor, as its function may be affected.

❼ **– Picture Off / Timer indicator**

- Lights up in green when the picture is turned off (page 28).
- Lights up in amber when the timer is set (page 27).

❽ **– Standby indicator**

Lights up in red when the TV is in standby mode.

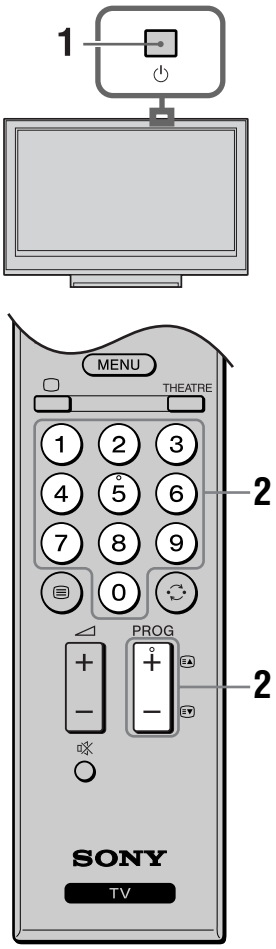
❾ **– Power indicator**

- Lights up in green when the TV is turned on.
- Flashes while the remote is being operated.

❿ **– Remote sensor**

Receives IR signals from the remote.

Watching TV



1 Press ⏻ on the top edge of the TV to turn on the TV.

When the TV is in standby mode (the ⏻ (standby) indicator on the TV front panel is red), press I/⏻ on the remote to turn on the TV.

2 Press the number buttons or PROG +/- to select a TV channel.

To select channel numbers 10 and above using the number buttons, enter the second digit quickly.

Additional operations

To	Press
Freeze the picture (Picture freeze)	⧓. Press once to remove the small window. Press again to return to single picture mode. ✍ This function is not available for Twin Picture and PC input source.
Access the Programme index table	MENU. Select “Programme List” by pressing ⇧/⇩, then press ⊕. Next, select the desired channel by pressing ⇧/⇩, then press ⊕.
Mute the sound	🔇. Press again to restore.
Turn on the TV without sound from standby mode	🔇.

To access Text

Press ☰. Each time you press ☰, the display changes cyclically as follows:
Text ⟶ Text over the TV picture (mix mode) ⟶ No Text (exit the Text service)
To select a page, press the number buttons or ▲/▼.
To hold a page, press →/⏸.
To reveal hidden information, press i/?.

✍
Text language displays can be either English, Persian or French depending on your broadcast signal.

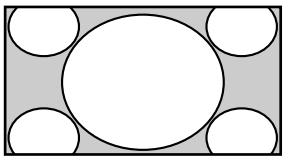
💡
When four coloured items appear at the bottom of the Text page, Fastext is available. Fastext allows you to access pages quickly and easily. Press the corresponding coloured button to access the page.

To change the wide mode manually

Press ⊞ repeatedly to select the desired wide mode.

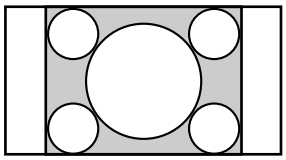
For TV, Video, HD/DVD or HDMI (other than PC Input)

Wide Zoom*



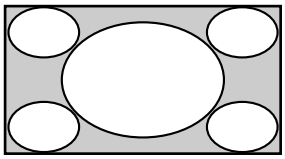
Enlarges the centre portion of the picture. The left and right edges of the picture are stretched to fill the 16:9 screen.

Normal



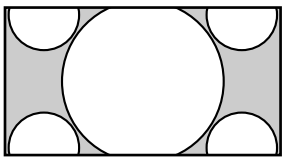
Displays the 4:3 picture in its original size. Side bars are shown to fill the 16:9 screen.

Full



Stretches the 4:3 picture horizontally, to fill the 16:9 screen.

Zoom*



Displays cinemascopic (letter box format) broadcasts in the correct proportions.

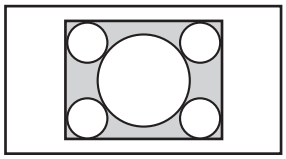
* Parts of the top and bottom of the picture may be cut off.

✍
You cannot select "Normal" for HD signal source pictures.

💡
- When "Auto Wide" is set to "On", the TV will automatically select the best mode to suit the input from an external equipment (page 24).
- You can adjust the position of the picture when selecting "Zoom". Press ↑/↓ to move up or down the picture (e.g. to read subtitles).

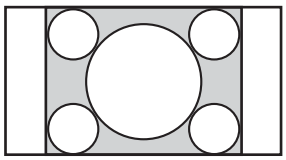
For PC Input

Normal



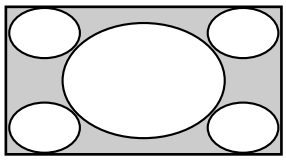
Displays the picture in its original pixel size. Bars are shown at the top, bottom, and both sides for small picture.

Full 1



Stretches the original picture to fill the screen vertically.

Full 2



Stretches the Full 1 picture horizontally to fill the 16:9 screen.

Using the Tools menu

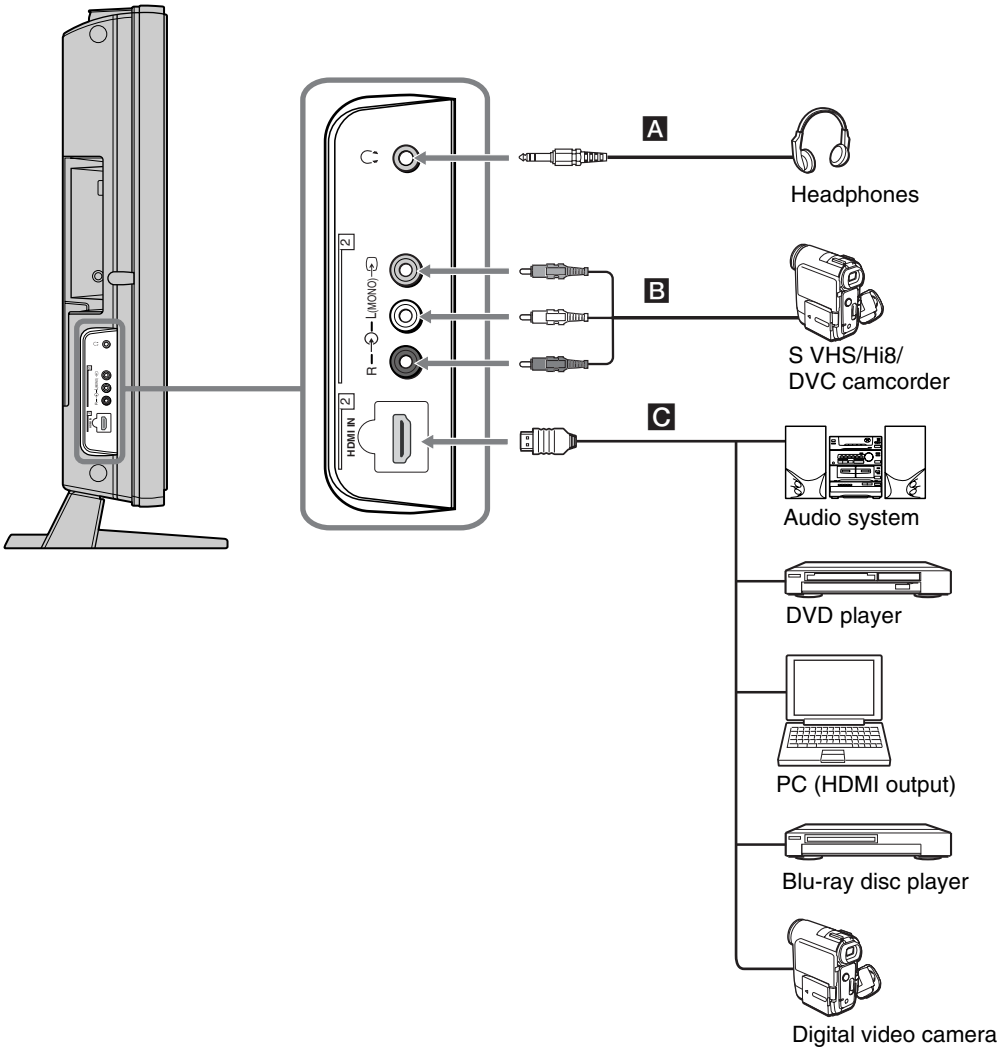
Press TOOLS to display the following options when viewing a TV programme.

Options	Description
Close	Closes the Tools menu.
Picture Mode	See page 20.
Sound Mode	See page 22.
Motion Enhancer	See page 25.
Speaker	See page 26.
🎧 Volume	Adjusts the volume of the headphones.
Sleep Timer	See page 27.
Power Saving	See page 28.

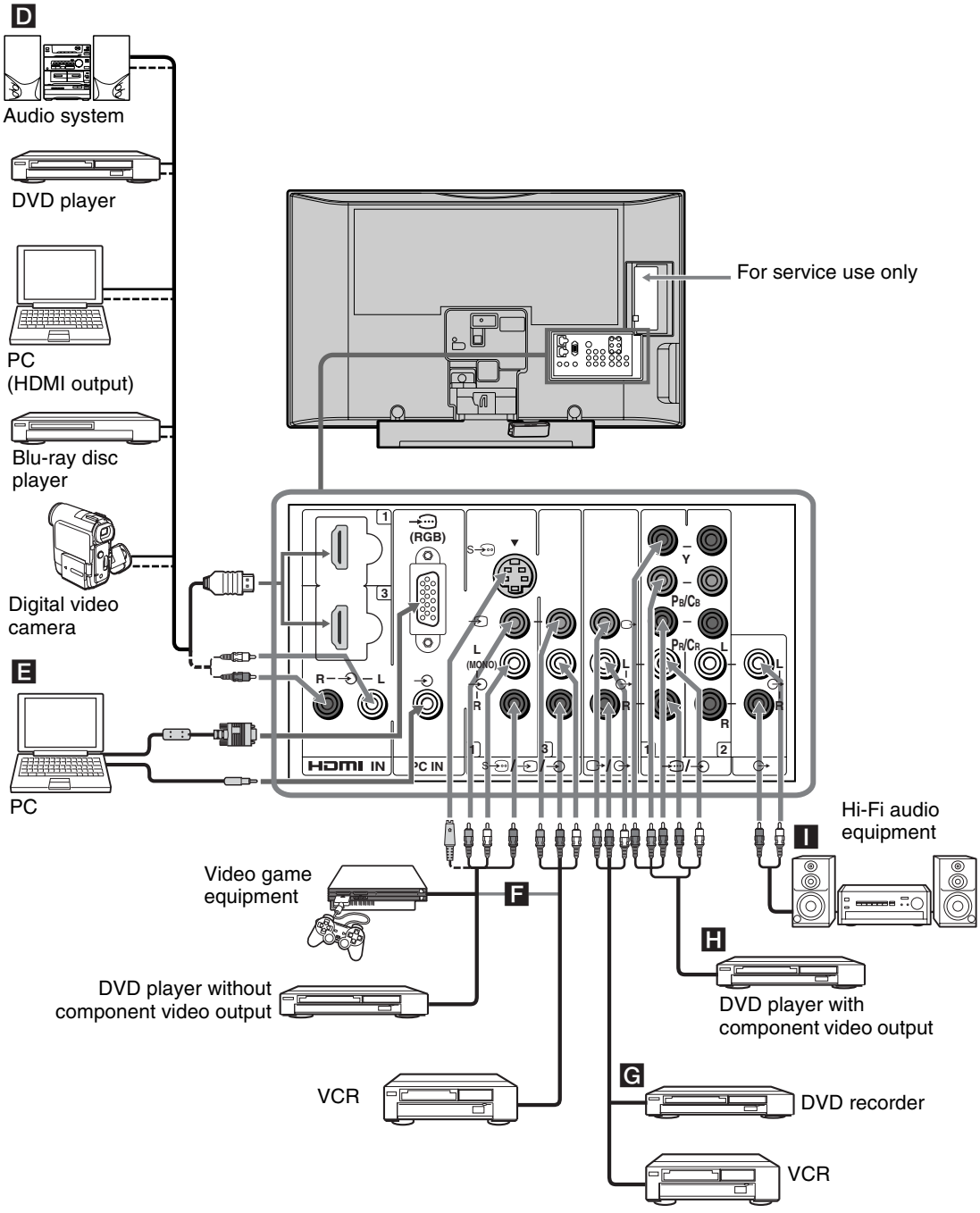
Connecting optional equipment

You can connect a wide range of optional equipment to your TV.

Connecting to the TV (side)



Connecting to the TV (rear)



Continued

Jacks	Input symbol on screen	Description
A ∩		Connect to the ∩ jack to listen to sound from the TV on headphones.
B →2, and →2	→ Video 2	Connect to the video jack →2, and the audio jacks →2. If you connect mono equipment, connect to the L(MONO) jack →2.
C HDMI IN 2 **D** HDMI IN 1 or 3	→ HDMI 1 or → HDMI 2 or → HDMI 3	Connect to the HDMI IN 1, 2 or 3 jack if the equipment has a HDMI jack. The digital video and audio signals are input from the equipment. In addition, when HDMI control compatible equipment is connected, communication with the connected equipment is supported. Refer to page 27 to set-up this communication. If the equipment has a DVI jack, connect the DVI jack to the HDMI IN 3 jack through a DVI - HDMI adaptor interface (not supplied), and connect the equipment's audio out jacks to the audio in the HDMI IN 3 jacks. ✍ • The HDMI jacks only support the following video inputs: 480i, 480p, 576i, 576p, 720p (50/60 Hz), 1080i (50/60 Hz), 1080p (50/60 Hz) and 1080/24p. • Be sure to use only a HDMI cable that bears the HDMI logo (recommended Sony HDMI cable). • When connecting an audio system with HDMI jack, be sure to also connect to the audio output jacks ← (refer **I** in page 15) to listen to the sound from the TV on audio system.
E PC IN	PC	Connect to the PC IN → (RGB) jack and the audio jack →. It is recommended to use a PC cable with ferrites.
F S→1 or →1 or 3, and →1 or 3	S→ Video 1 or → Video 1 or → Video 3	Connect to the S video jack S→1 or the video jack →1 or 3, and the audio jacks →1 or 3. To avoid picture noise, do not connect the camcorder to the video jack →1 and the S video jack S→1 at the same time. If you connect mono equipment, connect to the L(MONO) jack →1 or 3.
G →/←		Connect to the video output jack → to record the image from the TV. Connect to the audio output jacks ← to record the sound from the TV on DVD recorder or VCR. To turn off the sound of the TV speakers, set "Speaker" to "Audio System" (page 26). If you connect mono equipment, connect to the L jack ←. ✍ The monitor output jacks cannot support HD/DVD, HDMI and PC signals source pictures, also digital audio signal for sound.
H →/→1 or 2	→HD/DVD 1 or →HD/DVD 2	Connect to the component jacks and the audio jacks →/→1 or 2. For better picture quality, component connection is recommended if your DVD player has a component video output.
I ←		Connect to the audio output jacks ← to listen to the sound from the TV on Hi-Fi audio equipment. To turn off the sound of the TV speakers, set "Speaker" to "Audio System" (page 26).

Viewing pictures from the connected equipment

Turn on the connected equipment, then press ⊡/⊡ to display the connected equipment list. Press ⇧/⇩ to select the desired input source, then press ⊕. (The highlighted item is selected if 2 seconds pass without any operation after pressing ⇧/⇩.) When the input source is set to “Skip” in the “Video Labels” under the “AV Set-up” menu (page 26), that input does not appear in the list.

Press ⊡/⊡ on the top edge of the TV to display the connected equipment list and select the desired input source. You can also press ⇧/⇩ to select the desired input source. Then wait for 2 seconds to display the selected input source.

Additional operations

To	Press
Return to normal TV mode	⎋.
Change the volume of the connected HDMI control compatible audio system	◿ +/-.
Mute the sound of the connected HDMI control compatible audio system	⊠. Press again to restore.

Using the Tools menu

Press TOOLS to display the following options when viewing pictures from connected equipment.

Options	Description
Close	Closes the Tools menu.
Picture Mode (except PC input mode)	See page 20.
Display Mode (in PC input mode only)	See page 20.
Sound Mode	See page 22.
Motion Enhancer (except PC input mode)	See page 25.
Speaker	See page 26.
Twin Picture (except PC input mode)	See page 18.
PIP (in PC input mode only)	See page 18.
Single Picture (in Twin Picture and PIP mode only)	Returns to single picture mode.
Audio Swap (in PIP mode only)	See page 18.
Auto Adjustment (in PC input mode (except HDMI PC input) only)	See page 29.
Horizontal Shift (in PC input mode only)	See page 29.
Vertical Shift (in PC input mode only)	See page 29.
∩ Volume	Adjusts the volume of the headphones.
Sleep Timer (except PC input mode)	See page 27.
Power Saving	See page 28.

The options displayed vary depending on the input source.

Continued

To view two pictures simultaneously – Twin Picture

You can view two pictures (external input and TV programme) on the screen simultaneously.
Connect the optional equipment (page 14, 15) and make sure that images from the equipment appear on the screen (page 17).

✍
- This function is not available for a PC input source.
- You cannot change the size of the pictures.
- The picture on the right cannot be displayed and no sound when the viewed external input is Video 1 or S Video 1, Video 2, or Video 3.
- The picture and sound from the monitor output jacks ⟶/⟵ (refer G in page 15) will follow the left picture. However, if audio output jacks ⟵ (refer I in page 15) are connected, the sound will follow TV speaker.

1 Press TOOLS to display the Tools menu.

2 Press ⇧/⇩ to select “Twin Picture”, then press ⊕.

The picture from connected equipment is displayed on the left and the TV programme is displayed on the right.

3 Press number buttons or PROG +/- to select the TV channel.

To return to single picture mode

Press ⊕ or RETURN.

💡
The picture framed in green is audible. You can switch the audible picture by pressing ⇦/⇨.

To view two pictures simultaneously - PIP (Picture in Picture)

You can view two pictures (PC input and TV programme) on the screen simultaneously.
Connect a PC (page 14, 15) and make sure that images from a PC appear on the screen (page 17).

✍
- You cannot display resolutions higher than WXGA (1360 × 768 pixels).
- “Power Management” is not available in PIP mode (page 29).
- The sound will follow TV speaker when audio output jacks ⟵ (refer I in page 15) are connected.

1 Press TOOLS to display the Tools menu.

2 Press ⇧/⇩ to select “PIP”, then press ⊕.

The picture from the connected PC is displayed with full size and the TV programme is displayed on the bottom right corner.
You can use ⇧/⇩/⇦/⇨ to move the TV programme screen position.

3 Press number buttons or PROG +/- to select the TV channel.

To return to single picture mode

Press RETURN.

💡
You can switch the audible picture by selecting “Audio Swap” from the Tools menu.

Using HDMI control

The HDMI control function allows equipment to control each other using HDMI CEC (Consumer Electronics Control) specified by HDMI.
You can perform interlocked control operations between Sony HDMI control compatible equipment such as a TV, DVD recorder with hard disk and audio system by connecting the equipment with HDMI cables.
Be sure to correctly connect and set the compatible equipment to use the HDMI control function.

To connect the HDMI control compatible equipment

Connect the compatible equipment and the TV with a HDMI cable. When connecting an audio system with HDMI jack, be sure to also connect to the audio output jacks ⟵ (refer I in page 15) to listen to the sound from the TV on audio system. For details, see page 14 and 15.

To make the HDMI control settings

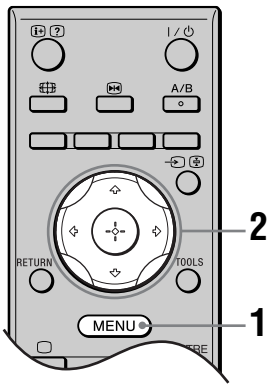
HDMI control must be set on both the TV side and the connected equipment side. See “HDMI Set-up” (page 27) for the TV side settings. See the operating instructions of the connected equipment for setting details.

HDMI interlock control functions

- Turns the connected equipment off automatically when the TV is turned off.
- Turns the TV on automatically when the connected equipment is turned on. TV automatically switches to the input in which the equipment is connected when the equipment starts to play.
- If you turn on a connected audio system while the TV is on, the input switches to the audio from the audio system.
- Adjusts the volume and mutes the sound of a connected audio system.

Navigating through menus

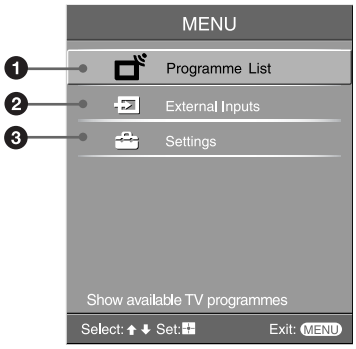
"MENU" allows you to enjoy various convenient features of this TV. You can easily select channels or inputs sources and change the settings for your TV.



1 Press MENU.

2 Press ⇧/⇩ to select an option, then press ⊕.

To exit the menu, press MENU.



❶ Programme List

Displays available TV channels.

- To watch the desired channel, select the channel, then press ⊕.
- To assign a label to a channel, select "Edit Programme Labels", then see page 30.

❷ External Inputs

Selects equipment connected to your TV.

- To watch the desired external input, select the input source, then press ⊕.
- To assign a label to an external input, select "Edit Video Labels", then see page 26.
- To see a list of the connected HDMI control compatible equipment, select "HDMI Device Selection".

❸ Settings

Displays the "Settings" menu where most of the advanced settings and adjustments are performed.

1 Press ⇧/⇩ to select a menu icon, then press ⊕.

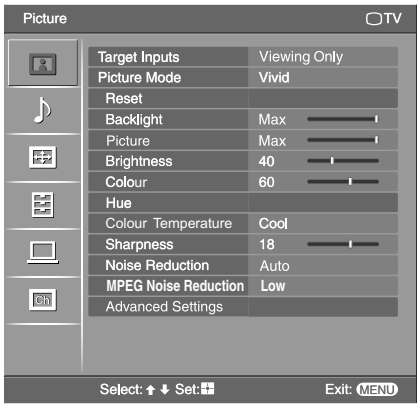
2 Press ⇧/⇩/⇦/⇨ to select an option or adjust a setting, then press ⊕.

For details about settings, see page 20 to 31.

✍

The options you can adjust vary depending on the situation. Unavailable options are greyed out or not displayed.

Picture menu



You can select the options listed below on the "Picture" menu. To select options in "Settings", refer to "Navigating through menus" (page 19).

Target Inputs

Selects whether to apply settings made in the "Picture" menu to all inputs, or only to the input currently being watched.
"All": Applies settings to all inputs.
"Viewing Only": Applies settings only to the current input.

✍
"Target Inputs" is not available for a PC input source.

Picture Mode

Selects the picture mode except for PC input source.
"Vivid": For enhanced picture contrast and sharpness.
"Standard": For standard picture. Recommended for home entertainment.
"Cinema": For optimum picture quality of film videos.

Display Mode

Selects the display mode for PC input source.
"Video": For video images.
"Text": For text, charts or tables.

✍
The options displayed vary depending on the input source.

Reset

Resets all the "Picture" settings except "Target Inputs", "Picture Mode" and "Display Mode" to the factory settings.

Backlight

Adjusts the brightness of the backlight.

✍
"Backlight" is not available when you set "Power Saving" to "High" (page 28).

Picture

Increases or decreases picture contrast.

Brightness

Brightens or darkens the picture.

Colour

Increases or decreases colour intensity.

✍
"Colour" is not available for a PC input source.

Hue

Increases or decreases the green tones and red tones.

✍
"Hue" can only be adjusted for an NTSC colour system (e.g., U.S.A. video tapes).

Colour Temperature

Adjusts the whiteness of the picture.
"Cool": Gives the white colours a blue tint.
"Neutral": Gives the white colours a neutral tint.
"Warm 1"/"Warm 2": Gives the white colours a red tint. "Warm 2" gives a redder tint than "Warm 1".

✍
"Warm 1" and "Warm 2" are not available when "Picture Mode" is set to "Vivid".

Sharpness

Sharpens or softens the picture.

✍
"Sharpness" is not available for a PC input source.

Noise Reduction

Reduces the picture noise (snowy picture) in a weak broadcast signal.
"Auto": Automatically reduces the picture noise.
"High"/"Medium"/"Low": Modifies the effect of the noise reduction.
"Off": Turns off the "Noise Reduction" feature.

✍
- "Auto" is not available when watching external inputs or when "Target Inputs" is set to "All".
- "Noise Reduction" is not available for a PC input source.

MPEG Noise Reduction

Reduces the picture noise in MPEG-compressed video.
Choose either "High", "Medium", "Low" or "Off".

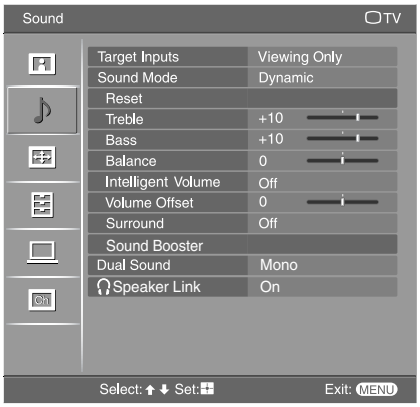
✍
"MPEG Noise Reduction" is not available for a PC input source.

Advanced Settings

Customizes the "Picture" function in more detail. When you set "Picture Mode" to "Standard" or "Cinema", you can set/change these settings.
"Reset": Resets all the advanced settings to the factory settings.
"Black Corrector": Enhances black areas of the picture for stronger contrast.
"Adv. Contrast Enhancer": Automatically adjusts "Backlight" and "Picture" to the most suitable settings judging from the brightness of the screen. This setting is especially effective for dark images scenes. It will increase the contrast distinction of the darker picture scenes.
"Gamma": Adjusts the balance between bright and dark areas of the picture.
"Clear White": Emphasizes white colours.
"Live Colour": Makes colours more vivid.
"Colour Space": Changes the colour reproduction gamut. "Wide" reproduces the vivid colour and "Normal" reproduces the standard colour.

✍
- "Advanced Settings" is not available for a PC input source or when "Picture Mode" is set to "Vivid".
- "Live Colour" is not available when "Colour Space" is set to "Normal".

Sound menu



You can select the options listed below on the "Sound" menu. To select options in "Settings", refer to "Navigating through menus" (page 19).

Target Inputs

Selects whether to apply settings made in the "Sound" menu to all inputs, or only to the input currently being watched.
"All": Applies settings to all inputs.
"Viewing Only": Applies settings only to the current input.

Sound Mode

"Dynamic": Enhances treble and bass.
"Standard": For standard sound. Recommended for home entertainment.
"Custom": Flat response.

Reset

Resets all the "Sound" settings except "Target Inputs", "Sound Mode", "Dual Sound" and "Speaker Link" to the factory settings.

Treble

Adjusts higher-pitched sounds.

Bass

Adjusts lower-pitched sounds.

Balance

Emphasizes left or right speaker balance.

Intelligent Volume

Keeps a constant volume level even when volume level gaps occur (e.g., adverts tend to be louder than programmes).

Volume Offset

Adjusts the volume level of the current input relative to other inputs, when "Target Inputs" is set to "Viewing Only".

Surround

"S-FORCE Front Surround": Available for normal stereo broadcast and 5.1ch digital broadcast surround audio, and the audio input from connected equipment.
"Simulated Stereo": Adds a surround-like effect to mono programmes.
"Off": Converts and reproduces 5.1ch and other digital broadcast surround audio as normal stereo audio (2ch). Reproduces the original audio of other broadcasts as it is.

Sound Booster

Gives sound more impact by compensating for phase effects in speakers.
Choose either "High", "Low" or "Off".

"Sound Booster" is available when "Sound Mode" is set to "Custom".

Dual Sound

Selects the sound from the speaker for a stereo or bilingual broadcast.
The selection varies, depending on the Broadcasting.

Broadcasting	Selection
NICAM stereo	Stereo (stereo sound) Mono (regular sound)
NICAM bilingual	Main (main sound) Sub (sub sound) Mono (regular sound)
NICAM monaural	Main (main sound) Mono (regular sound)
A2 (German) stereo	Stereo (stereo sound) Mono (regular sound)
A2 (German) bilingual	Main (main sound) Sub (sub sound)

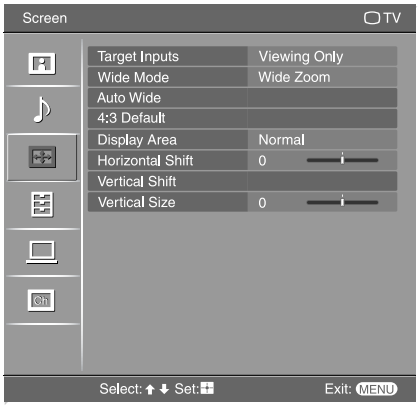
✍
- If the signal is very weak, the sound becomes monaural automatically.
- If the stereo sound is noisy when receiving a NICAM programme, select “Mono”. The sound becomes monaural, but the noise is reduced.
- The “Dual Sound” setting is memorized for each programme position.
- You cannot receive a stereo broadcast signal when “Mono” is selected for the programme position.
- You cannot receive stereo or dual sound when “Low” or “High” is selected in “Audio Filter” (page 31).

💡
- NICAM is receivable in following countries/regions. Hong Kong, Singapore, New Zealand, Malaysia, Thailand, etc.
- A2 (German) is receivable in following countries/regions. Australia, Malaysia, Thailand, etc.
- If you select other equipment connected to the TV, set “Dual Sound” to “Stereo”, “Main” or “Sub”. However, when the external equipment connected to the HDMI jack is selected, this is fixed to “Stereo”, except HDMI IN 3 with DVI analogue sound input.

Speaker Link

Turns the TV’s internal speakers on/off when headphones are connected.
“On”: Sound is output only from headphones.
“Off”: Sound is output from both the TV and headphones.

Screen menu



You can select the options listed below on the "Screen" menu. To select options in "Settings", refer to "Navigating through menus" (page 19).

Target Inputs

Selects whether to apply settings made in the "Screen" menu to all inputs, or only to the input currently being watched.
"All": Applies settings to all inputs.
"Viewing Only": Applies settings only to the current input.

Wide Mode

For details about the wide mode, see "To change the wide mode manually" (page 13).

Auto Wide

Automatically changes the wide mode according to the input signal from an external equipment. To keep your setting, select "Off".

"Auto Wide" is not available when watching TV programmes.

Even if "Auto Wide" is set to "On" or "Off", you can always modify the format of the screen by pressing repeatedly.

4:3 Default

Selects the default screen mode for use with 4:3 broadcasts.
"Wide Zoom": Displays conventional 4:3 broadcasts with an imitation wide screen effect.
"Normal": Displays conventional 4:3 broadcasts in the correct proportions.
"Off": Keeps the current "Wide Mode" setting when the channel or input is changed.

- "4:3 Default" is available only if "Auto Wide" is set to "On".
- "4:3 Default" is not available when watching TV programmes or for a HD input signal.

Display Area

Adjusts the screen area for displaying the picture.
"Normal": Displays the picture in the original size.
"-1"/"-2": Enlarges the picture to hide the edge of the picture.

Horizontal Shift

Adjusts the horizontal position of the picture.

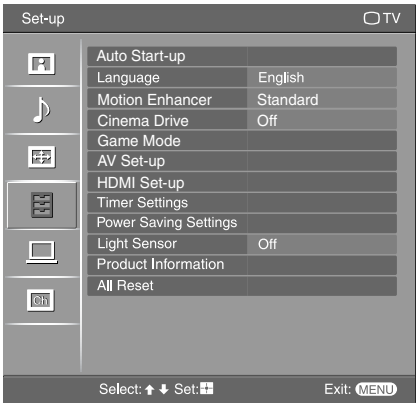
Vertical Shift

Adjusts the vertical position of the picture when "Wide Mode" is set to "Zoom".

Vertical Size

Adjusts the vertical size of the picture when "Wide Mode" is set to "Wide Zoom" or "Zoom".

Set-up menu



You can select the options listed below on the "Set-up" menu. To select options in "Settings", refer to "Navigating through menus" (page 19).

Auto Start-up

Starts the initial set-up to select the language and tune in all available channels. Usually, you do not need to do this operation because the language will have been selected and channels already tuned when the TV was first installed (page 5). However, this option allows you to repeat the process (e.g., to retune the TV after moving house, or to search for new channels that have been launched by broadcasters).

Language

Selects the language in which the menus are displayed.

Motion Enhancer

Provides smoother picture movement and reduces picture blur.
"High": Provides smoother picture movement such as for movies.
"Standard": Provides smooth picture movement. Use this setting for standard use.
"Off": Use this setting when the "High" and "Standard" settings result in noise.

- "Motion Enhancer" is not available when "Game Mode" is set to "On" or for a PC input source.
- Depending on the video, you may not see the effect visually, even if you have changed the setting.
- When you select Theatre Mode, "Motion Enhancer" is set to "Off" by default.

Cinema Drive

Provides smoother picture movement when playing DVD or VCR images taken on film, reducing picture blur and graininess.
"Auto 1": Provides smoother picture movement than the original film video. Use this setting for standard use.
"Auto 2": Provides the original film video as is.
"Off": Turns off the "Cinema Drive" feature.

- If the image contains irregular signals or too much noise, "Cinema Drive" will be automatically turned off even if "Auto 1" or "Auto 2" is selected.
- "Cinema Drive" is not available for a PC input source.

Game Mode

Depending on the game software, reaction times may slow during fast-moving scenes, etc. Select "On" to improve the reaction times.

"Game Mode" is not available for TV input and PC input sources.

Continued

AV Set-up

Video Labels

Assigns a name to any equipment connected to the side and rear jacks. The name will be displayed briefly on the screen when the equipment is selected. You can skip input signals from connected equipment that you do not want displayed on the screen.

1 Press ⇧/⇩ to select the desired input source, then press ⊕.

2 Press ⇧/⇩ to select the desired option below, then press ⊕.

Equipment labels: Uses one of the preset labels to assign a name to connected equipment.
"Edit:": Creates your own label. Follow steps 2 to 4 of "Programme Labels" (page 30).
"Skip": Skips an unnecessary input source.

Auto S Video

Selects the input signal from S video jacks S 1 when S / 1 jacks are both connected.
"On": Switches automatically between the S video jack and the composite video jacks depending on the cable connection.
"Off": Activates the composite video jacks.

Speaker

Turns on/off the TV's internal speakers.
"TV Speaker": The TV speakers are turned on in order to listen to the TV's sound through the TV speakers.
"Audio System": The TV speakers are turned off in order to listen to the TV's sound only through your external audio equipment connected to the audio output jacks. When connected with a HDMI control compatible equipment, you can turn the connected equipment on interlocked with the TV. This setting must be made after connecting the equipment.

Audio Out

"Variable": The audio output from your audio system can be controlled by the TV's remote.
"Fixed": The audio output of the TV is fixed. Use your audio receiver's volume control to adjust the volume (and other audio settings) through your audio system.

✍
"Audio Out" is not available for audio system connected to the TV using the HDMI jacks.

Colour System

Selects the colour system ("Auto", "PAL", "SECAM", "NTSC3.58", "NTSC4.43" or "PAL60") according to the composite video signal from the input source.

HDMI Set-up

This is used to set the HDMI control compatible equipment connected to the HDMI jacks. Note that the interlock setting must also be made on the connected HDMI control compatible equipment side.

HDMI Control

Sets whether to interlock the HDMI control compatible equipment and the TV. When set to “On”, the following menu items can be performed.

Auto Devices Off

When this is set to “On”, the HDMI control compatible equipment turns off automatically when the TV is turned off (interlock function).

Auto TV On

When this is set to “On”, the TV turns on automatically when the HDMI control compatible equipment is turned on (interlock function).

Device List Update

Creates or updates the “HDMI Device List”. Up to 11 HDMI control compatible equipment items can be connected, and up to 5 equipment items can be connected to a single jack. Be sure to update the “HDMI Device List” when you change the HDMI control compatible equipment connections or settings.

HDMI Device List

Displays the connected HDMI control compatible equipment.

✍

You cannot use “HDMI Set-up” when a HDMI control compatible audio system is interlocked with the TV.

Timer Settings

Sets the timer to turn on/off the TV.

Sleep Timer

Sets a period of time after which the TV automatically switches itself into standby mode.

When the “Sleep Timer” is activated, the ⏲ (Timer) indicator on the TV front panel lights up in amber.

💡

- If you turn off the TV and turn it on again, “Sleep Timer” is reset to “Off”.
- A notification message appears on the screen one minute before the TV switches to standby mode.

On Timer

Sets the timer to turn on the TV from standby mode.

“Day”: Selects the day on which you want to activate the “On Timer”.

“Time”: Sets the time to turn on the TV.

“Duration”: Selects the time period after which the TV automatically switches to standby mode again.

“Volume Set-up”: Sets the volume for when the timer turns on the TV.

Clock Set

Allows you to adjust the clock manually.

Continued

Power Saving Settings

Power Saving

Selects the power saving mode to reduce the power consumption of the TV. When “Picture Off” is selected, the picture is turned off and the ⊠ (Picture Off) indicator on the TV front panel lights up in green. The sound remains unchanged.

Power Consumption

Displays the power consumption level of the selected power saving mode. When “Display” is selected, power consumption level will be displayed on the screen when you press ⊕/? or turn on the TV.

Light Sensor

“On”: Automatically optimizes the picture settings according to the ambient light in the room.
“Off”: Turns off the “Light Sensor” feature.

✍

- Be sure not to put anything over the sensor, as its function may be affected.
- “Light Sensor” is not available when you set “Power Saving” to “High” (page 28).

Product Information

Displays your TV’s product information.

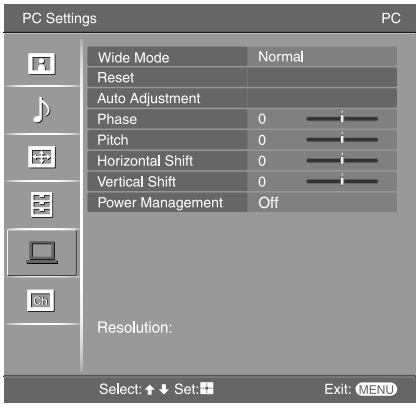
All Reset

Resets all settings to the factory settings and then displays the “Auto Start-up” screen.

✍

- Be sure not to turn the TV off during this period (it takes about 30 seconds) or press any buttons.
- All settings, including language, auto tuned channels, etc. will be reset.

PC Settings menu



You can select the options listed below on the “PC Settings” menu. To select options in “Settings”, refer to “Navigating through menus” (page 19).

Wide Mode — Selects a screen mode for displaying input from your PC.
“Normal”: Displays the picture in its original size.
“Full 1”: Enlarges the picture to fill the display area, keeping its original horizontal-to-vertical aspect ratio.
“Full 2”: Enlarges the picture to fill the display area.

Reset — Resets all the “PC Settings” except “Wide Mode” and “Power Management” to the factory settings.

Auto Adjustment — Automatically adjusts the display position and phase of the picture when the TV receives an input signal from the connected PC.

“Auto Adjustment” may not work well with certain input signals. In such cases, manually adjust “Phase”, “Horizontal Shift” and “Vertical Shift”.

Phase — Adjusts the phase when the screen flickers.

Pitch — Adjusts the pitch when the picture has unwanted vertical stripes.

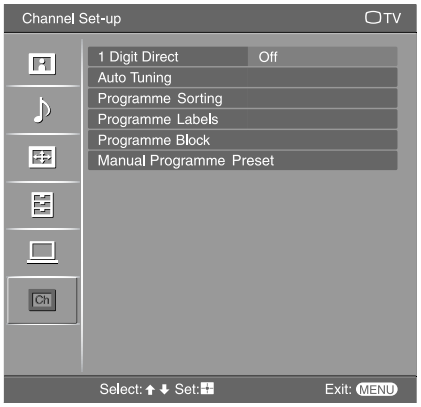
Horizontal Shift — Adjusts the horizontal position of the picture.

Vertical Shift — Adjusts the vertical position of the picture.

Power Management — Switches the TV to standby mode if no signal is received for 30 seconds.

You can refer to PC Input Signal Reference Chart (page 33) for supported signals and “Resolution:” value displayed.

Channel Set-up menu



You can select the options listed below on the "Channel Set-up" menu. To select options in "Settings", refer to "Navigating through menus" (page 19).

1 Digit Direct

When "1 Digit Direct" is set to "On", you can select a channel using one preset number button (0 - 9) on the remote.

✍
When "1 Digit Direct" is set to "On", you cannot select channel numbers 10 and above entering two digits using the remote.

Auto Tuning

Tunes in all the available channels.
This option allows you to retune the TV after moving house, or to search for new channels that have been launched by broadcasters.

Programme Sorting

Changes the order in which the channels are stored on the TV.

1 Press ⇧/⇩ to select the channel you want to move to a new position, then press ⊕.

2 Press ⇧/⇩ to select the new position for your channel, then press ⊕.

Programme Labels

Assigns a channel name of your choice up to five letters or numbers. The name will be displayed briefly on the screen when the channel is selected.

1 Press ⇧/⇩ to select the channel you want to name, then press ⊕.

2 Press ⇧/⇩ to select the desired letter or number ("_" for a blank space), then press ⇨.

If you input a wrong character

Press ⇦/⇨ to select the wrong character. Then, press ⇧/⇩ to select the correct character.

To delete all the characters

Select "Reset", then press ⊕.

3 Repeat the procedure in step 2 until the name is completed.

4 Select "OK", then press ⊕.

Programme Block

Blocks an individual channel from being watched.

1 Press ⇧/⇩ to select the channel you want to block, then press ⊕.

2 Press ⇧/⇩ to select "Block", then press ⊕.
To watch the channel, select "Allow".

Manual Programme Preset

Before selecting “Label”/“AFT”/“Audio Filter”/“Skip”/“Colour System”/“Signal Booster”, press PROG +/- to select the programme number with the channel. You cannot select a programme number that is set to “Skip” (page 31).

Programme/TV System/VHF or UHF

Presets programme channels manually.

1. Select “Programme”, then press ⊕.
2. Press ⇧/⇩ to select the programme number you want to manually tune (if tuning a VCR, select channel 00), then press RETURN.
3. Press ⇧/⇩ to select “TV System”, then press ⊕.
4. Press ⇧/⇩ to select your TV broadcast systems, then press ⊕.
5. Press ⇧/⇩ to go to the frequency range indication (“VHF Low”, “VHF High” or “UHF”), then press ⊕.
6. Tune the channels as follows:

   Press ⇦/⇨ to search for the next available channel. When a channel has been found, the search will stop. To continue searching, press ⇦/⇨.

Repeat the procedure above to preset other channels manually.

Label

Assigns a name of your choice, up to five letters or numbers, to the selected channel. This name will be displayed briefly on the screen when the channel is selected.
To input characters, follow steps 2 to 4 of “Programme Labels” (page 30).

AFT

Allows you to fine-tune the selected programme number manually if you feel that a slight tuning adjustment will improve the picture quality.
You can adjust the fine tuning over a range of -15 to +15. When “On” is selected, the fine tuning is performed automatically.

Audio Filter

Improves the sound for individual channels in the case of distortion in mono broadcasts. Sometimes a non-standard broadcast signal can cause sound distortion or intermittent sound muting when watching mono programmes.
If you do not experience any sound distortion, we recommend that you leave this option set to the factory setting “Off”.

✍
You cannot receive stereo or dual sound when “Low” or “High” is selected.

Skip

Skips unused channels when you press PROG +/- to select channels. (You can still select a skipped channel using the number buttons.)

Colour System

Selects the colour system (“Auto”, “PAL”, “SECAM”, “NTSC3.58”, “NTSC4.43” or “PAL60”) according to the channel.

Signal Booster (Intelligent Signal Booster)

Improves the picture quality if the TV signal is too strong or weak.
Press ⇧/⇩ to select either “Off” if the signal is too strong (picture distorted; picture with lines; signal interference) or “Auto” if the signals is weak (snowy picture), then press ⊕.

Signal Level

Displays the signal level for programme currently being watched.

Specifications

Model name		KLV-46D300A	KLV-40D300A	KLV-32D300A
System				
Panel System		LCD (Liquid Crystal Display) Panel		
TV System		B/G, I, D/K, M		
Colour System		PAL, PAL60, SECAM, NTSC4.43, NTSC3.58		
Channel Coverage		B/G: VHF: E2 to E12/ UHF: E21 to E69/ CATV: S01 to S03, S1 to S41 VHF: 0 to 12, 5A, 9A/ UHF: 28 to 69/ CATV: S01 to S03, S1 to S44 (Australia only) VHF: 1 to 11/ UHF: 21 to 69/ CATV: S01 to S03, S1 to S41 (New Zealand only) I: UHF: B21 to B69/ CATV: S01 to S03, S1 to S41 D/K: VHF: C1 to C12, R1 to R12/ UHF: C13 to C57, R21 to R60/ CATV: S01 to S03, S1 to S41, Z1 to Z39 M: VHF: A2 to A13/ UHF: A14 to A79/ CATV: A-8 to A-2, A to W+4, W+6 to W+84		
Sound Output		10 W + 10 W		
Input/Output jacks				
Antenna		75 ohm external terminal		
S 1		S video input (4-pin mini DIN)		
1, 2, 3		Video input (phono jack)		
1, 2, 3		Audio input (phono jacks): 500 mVrms, Impedance: 47 kilohms		
1, 2		Supported formats: 1080p (50/60 Hz), 1080i (50/60 Hz), 720p (50/60 Hz), 576p, 576i, 480p, 480i Y: 1 Vp-p, 75 ohms, 0.3V sync negative/P_B/C_B: 0.7 Vp-p, 75 ohms/P_R/C_R: 0.7 Vp-p, 75 ohms		
1, 2		Audio input (phono jacks): 500 mVrms, Impedance: 47 kilohms		
		Video output (phono jack)		
		Audio output (phono jacks)		
HDMI IN 1, 2, 3		Video: 1080/24p, 1080p (50/60 Hz), 1080i (50/60 Hz), 720p (50/60 Hz), 576p, 576i, 480p, 480i Audio: Two channel linear PCM 32, 44.1 and 48 kHz, 16, 20 and 24 bits Analogue audio input (phono jacks): 500 mVrms, Impedance: 47 kilohms (HDMI IN 3 only)		
PC IN (RGB)		PC Input (D-sub 15-pin) (see page 33) G: 0.7 Vp-p, 75 ohms, non Sync on Green/B: 0.7 Vp-p, 75 ohms/ R: 0.7 Vp-p, 75 ohms/HD: 1-5 Vp-p/VD: 1-5 Vp-p		
PC IN		PC audio input (minijack)		
		Audio output (phono jacks)		
		Headphones jack		
Power and others				
Power Requirements		110–240 V AC, 50/60 Hz		
Screen Size (inches)		46	40	32
Display Resolution		1,366 pixels (horizontal) × 768 lines (vertical)		
Power Consumption		Indicated on the rear of the TV.		
Dimensions (w × h × d)*	with stand (mm)	1114 × 782 × 306	981 × 696 × 265	790 × 581 × 214
	without stand (mm)	1114 × 730 × 115	981 × 643 × 110	790 × 530 × 100
Mass*	with stand (kg)	32	25	17
	without stand (kg)	27	21	15
Optional Accessories		Wall-Mount bracket SU-WL500		

* Dimensions and mass are approximate values.

Design and specifications are subject to change without notice.

PC Input Signal Reference Chart

Signals	Horizontal (Pixel)	Vertical (Line)	Horizontal frequency (kHz)	Vertical frequency (Hz)	Standard
VGA	**640**	**480**	**31.5**	**60**	**VGA**
	640	480	37.5	75	VESA
	720	400	31.5	70	VGA-T
SVGA	**800**	**600**	**37.9**	**60**	**VESA Guidelines**
	800	600	46.9	75	VESA
XGA	**1024**	**768**	**48.4**	**60**	**VESA Guidelines**
	1024	768	56.5	70	VESA
	1024	768	60	75	VESA
WXGA	**1280**	**768**	**47.4**	**60**	**VESA**
	1280	**768**	**47.8**	**60**	**VESA**
	1360	**768**	**47.7**	**60**	**VESA**

- This TV's PC input does not support Sync on Green or Composite Sync.
- This TV's PC input does not support interlaced signals.
- For the best picture quality, it is recommended to use the signals (boldfaced) in the above chart with a 60 Hz vertical frequency from a personal computer. In plug and play, signals with a 60 Hz vertical frequency will be selected automatically.

Troubleshooting

Check whether the ⏻ (standby) indicator is flashing in red.

When it is flashing

The self-diagnosis function is activated.

1 Count how many ⏻ (standby) indicator flashes between each two second break.
For example, the indicator flashes three times, then there is a two second break, followed by another three flashes, etc.

2 Press ⏻ on the top edge of the TV to turn it off, disconnect the AC power cord, and inform your dealer or Sony service centre of how the indicator flashes (number of flashes).

When it is not flashing

1 Check the items listed below.

2 If the problem still persists, have your TV serviced by qualified service personnel.

Picture

No picture (screen is dark) and no sound
- Check the antenna/cable connection.
- Connect the TV to the AC power outlet, and press ⏻ on the top edge of the TV.
- If the ⏻ (standby) indicator lights up in red, press I/⏻.

No picture or no menu information from equipment connected to the video input jack
- Press →/⊡ to display the connected equipment list, then select the desired input.
- Check the connection between the optional equipment and the TV.

Double images or ghosting
- Check the antenna/cable connection.
- Check the antenna location and direction.

Only snow and noise appear on the screen
- Check if the antenna is broken or bent.
- Check if the antenna has reached the end of its serviceable life (three to five years in normal use, one to two years at the seaside).

Distorted picture (dotted lines or stripes)
- Keep the TV away from electrical noise sources such as cars, motorcycles, hair-dryers or optional equipment.
- When installing optional equipment, leave some space between the optional equipment and the TV.
- Check the antenna/cable connection.
- Keep the antenna cable away from other connecting cables.
- Broadcast signals are too strong. Turn off or disconnect the booster if it is in use.

Picture or sound noise when viewing a TV channel
- Select “Manual Programme Preset” in the “Channel Set-up” menu and adjust “AFT” (Automatic Fine Tuning) to obtain better picture reception (page 31).
- Select “Noise Reduction” in the “Picture” menu to reduce the noise in the picture (page 21).

Good picture, but noisy sound
- The TV system setting is inappropriate.
- If the sound of all the channels are noisy, perform “Auto Tuning” in the “Channel Set-up” menu to preset the channel again (page 30).
- If the sound of some channels is noisy, select the channel, then perform “Manual Programme Preset” in the “Channel Set-up” menu, and select the appropriate TV system (“TV System”) (page 31).

Some tiny black points and/or bright points appear on the screen
- The picture of a display unit is composed of pixels. Tiny black points and/or bright points (pixels) on the screen do not indicate a malfunction.

The picture contours are disrupted
- Select “Standard” or “Off” in “Motion Enhancer” (page 25).

No colour on programmes
- Select “Reset” in the “Picture” menu to return to the factory settings (page 20).

No colour or irregular colour when viewing a signal from the Y, PB/CB, PR/CR jacks of →⊡/→1 or 2
- Check the connection of the Y, PB/CB, PR/CR jacks of →⊡/→1 or 2.
- Make sure that the Y, PB/CB, PR/CR jacks of →⊡/→1 or 2 are firmly seated in their respective jacks.

Picture flashes initially when changing to HDMI mode or switching on the TV with HDMI mode
- This is probably caused by the authentication process between HDMI equipment and the TV. It does not indicate a malfunction.

Sound

No sound, but good picture
- Press ◿ +/– or 🔇 (Mute).
- Check if the “Speaker” is set to “TV Speaker” from the “AV Set-up” menu in “Set-up” menu (page 26).

Stereo broadcast sound switches on and off, or is distorted; the sound switches between stereo and monaural frequently
- The antenna connection is loose or the antenna cable is damaged. Check the cable and connection on the TV, VCR, and on the wall (page 4).
- Adjust the antenna direction for the minimum interference. Contact a Sony dealer for advice.
- Signal transmission is low. Try using a booster. Otherwise, use the fine tuning (“AFT”) function (page 31).

General

The TV turns off automatically (the TV enters standby mode)
- Check if the “Sleep Timer” is activated, or confirm the “Duration” setting of “On Timer” (page 27).

The TV turns on automatically
- Check if the “On Timer” is activated (page 27).

Some input sources cannot be selected
- Select “Video Labels” in the “AV Set-up” menu and cancel “Skip” of the input source (page 26).

The remote does not function
- Replace the batteries.

The “Store Display Mode: On” message appears on the screen
- Select “All Reset” in the “Set-up” menu (page 28).

The wide screen mode changes spontaneously when “Auto Wide” is “On”
- During a transition between two programmes, the TV detects the optimum wide screen mode. During this period, an irregular wide screen mode may appear.
- The wide mode is switched automatically according to the revised signal with a Wide ID signal.
- The “Auto Wide” feature stops working temporarily when you press , and resumes after a while. To fix in the manually selected wide screen mode, set “Auto Wide” to “Off” in the “Screen” menu (page 24).

Text display is incomplete or garbled
- Your area may not be able to receive Text. Text is displayed only in the area that is covered by Text services.
- The antenna connection is loose or the antenna cable is damaged. Check the cable and connection on the TV, VCR, and on the wall (page 4).
- Adjust the antenna direction. Contact a Sony dealer for advice.
- Signal transmission is too low. Try using a booster.
- Using the fine tuning (“AFT”) function may improve the picture (page 31).

Cannot play shooting games
- Some shooting games which involve pointing a light beam at the TV screen with an electronic gun or rifle cannot be used with your TV. For details, see the instruction manual supplied with the video game software.

The TV cabinet creaks
- Changes in room temperature sometimes make the TV cabinet expand or contract, causing a noise. This does not indicate a malfunction.

Static discharge is felt when touching the TV cabinet
- This is the same static discharge that is felt when touching metal door handles or car doors especially when the air is dry, for example in winter. This does not indicate a malfunction.

Weak signal (signal level indicator displayed in red)
- Check the antenna/cable connection.
- Set the “Signal Booster” to “Auto” (page 31) or try using an external booster.

http://www.sony.net/

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